Paved Trail Repair Weston Bend State Park Weston, Missouri

CLARK& ENERSEN

OWNER: STATE OF MISSOURI

MICHAEL L. PARSON,

GOVERNOR

DEPARTMENT OF NATURAL RESOURCES

STATE PARKS

PROJECT OFFICE OF ADMINISTRATION

MANAGEMENT: DIVISION OF FACILITIES MANAGEMENT,

DESIGN AND CONSTRUCTION



☐BEE CREEK SHELTER

-PROJECT LOCATION

DESIGNER: Clark & Enersen

PROJECT NUMBER: X2117-01

SITE NUMBER: 5118

ASSET NUMBER: 7815118012

SHEET INDEX REFERENCE SYMBOLS STANDARD ABBREVIATIONS **GENERAL** DETAIL OR SECTION NUMBER GENERAL CONTRACTOR SHEET ON WHICH IT IS FOUND Title Sheet **COVER PLATE** Sheet Index and General Information **VIEW NAME** ACOUSTICAL INSULATION ACOUSTICAL PANEL DETAIL REFERENCE NUMBER **CIVIL** SECTION REFERENCE STAINLESS STEET SOLID SURFACING MATERIAL STAIN STREET COLD WATER **GYPSUM PLASTER** Existing Conditions and Demolition Plan C-201 Site Plan DETAIL REFERENCE Grading Plan Site Details C-601 **ELEVATION REFERENCE** HOLLOW METAL DOOR HOLLOW METAL FRAME OPEN TO FLOOR ABOVE **CROSS SECTION REFERENCE DETAIL SECTION REFERENCE** ABOVE SUSPENDED CEILING TONGUE AND GROOVI CLASSROOM ROOM IDENTIFIER ACOUSTICAL WALL PANE INSTALLATION INSULATION INTERIOR PERPENDICULAR DOOR/OPENING IDENTIFIER INVERT ELEVATION WINDOW/OPENING IDENTIFIER BELOW FINISH FLOOP **ELECTRICAL PANEL ELEVATION REFERENCE BRIDGING JOIST** WALL TYPE REFERENCE DEMOLITION INDICATOR .BASEMENT LOCATION UNLESS NOTED OTHERWISE LONGITUDINAL RUBBER BASE UNINTERRUPTIBLE POWER SUPPLY **BUILT-UP ROOF** EXISTING GRADE . .LARGE LUMP SUM EXTERIOR REINFORCED CONCRET REVISION TAG & CLOUD INDICATOR EXTENSION REVISION TAG INFORMATION: FACE TO FACE RECESSED .VAPOR BARRIER TOP indicates the instrument type. FIRE COATED .RECEPTACLE A = Addendum LIGHTWEIGHT PLASTER FLOOR DRAIN LW PLAS. RECTANGULAR VINYL COMPOSITION TILE B = Bid Package FOUNDATION LIGHTWEIGHT CONCRETE VISUAL DISPLAY BOARD FIRE EXTINGUISHER CABINET REINFORCEMEN⁷ D = Construction Change Directive or Change Directive **CEMENT PLASTER** .VERTICAL VESTIBULE MAINTENANCE F = Field Order FINISH FLOOR ELEVATION G = Guaranteed Maximum Price COUNTER FLASHING I = Architects Supplemental Instructions or Architects Supplemental RFM. RFG. MATERIAL RECESSED FLOOR MAT CORNER GUARD FINISH GRADE VOLUME L = Information MAXIMUM ROOFING CHALKBOARD VAPOR RETARDER P = Limited Permit MARKERBOARD RIGHT HAND REVERSE FLASHING R = Proposal Request, Proposal Request Order or Change Proposal Request VINYL WALL COVERING METAL CLAD BOT = Request For Information Number assigned to instrument type MOMENT CONNECTION WALL TO WALL MEDIUM DENSITY FIBERBOARD CAST IN PLACE FLOOR MEDIUM DENSITY OVERLOAD **GENERAL NOTES** CONTROL JOINT MATCH EXISTING WATER CLOSET FLOOR PLATE MISCELLANEOUS EQUIPMENT CENTER LINE WALL COVERING FLOOR FINISH .WALL CARPET CEILING DIFFUSER ALL DISCIPLINES SHALL BE RESPONSIBLE FOR THEIR SCOPE OF WORK. THIS WORK IS TO CEILING HEIGH FLUORESCENT MEMBRANE .WOOD DOOR FACE OF CONCRETE SPLASH BLOCK BE SCHEDULED AND COMPLETED WITH THE GENERAL CONTRACTOR'S FULL SOLID CORE KNOWLEDGE. FACE OF STUD MANUFACTURE FIREPLACE MANHOLE SOLID CONCRETE MASONRY UNIT ALL WORK TO BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF CODES MILLIMETER SCRN. FIREPROOFING WALL HUNG AND STANDARDS (INCLUDING THE AMERICANS WITH DISABILITIES ACT (ADAAG), CONCRETE MASONRY UNIT FRAME FRONT .MINIMUM. STORM DRAIN WATER HEATER INTERNATIONAL BUILDING CODE (IBC), NATIONAL ELECTRIC CODE (NEC), INTERNATIONAL WARFHOUSE FAR SIDE **MISCELLANEOUS** MECHANICAL CODE (IMC), NATIONAL FIRE PROTECTION AGENCY (NFPA 101), ASHRAE .WIND LOAD FLAT SCREEN STANDARD 90.1, AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME), AMERICAN WATER RESISTANT NATIONAL STANDARDS INSTITUTE (ANSI) AND THE SHEET METAL AND AIR CONDITIONING COMMERCIAL FIRE STANDPIPE METAL LATH **WEATHERSTRIPPING** CONTRACTOR'S NATIONAL ASSOCIATION (SMACNA)). METAL LABORATORY CASEWORK FASTENER WAINSCOT CONC FL CONF CONN CONSTR FOOTING SIMILAR .MOLDING SLIP JOINT SINK CONCRETE FLOOP MLWK . . MILLWORK FINAL CLEANING - REMOVE OR REPAIR DAMAGED OR SOILED SPOTS ON NEWLY PAINTED WATER MASONRY OPENING WATERPROOFING WTRPRF WALLS AND ON ALL NEWLY INSTALLED WORK. REMOVE DUST AND DEBRIS FROM ALL FXTR. WWM X SECT. WELDED WIRE MESH NEW WORK. .GALVANIZED CROSS SECTION CONTINUOUS

MICHAEL L. PARSON, **GOVERNOR**



STATE OF MISSOURI

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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES, MANAGEMENT, DESIGN **AND CONSTRUCTION**

DEPARTMENT OF NATURAL RESOURCES **STATE PARKS**

PAVED TRAIL REPAIR DESIGN & PHASE 1 CONSTRUCTION

WESTON BEND STATE PARK 16600 HIGHWAY 45 NORTH WESTON, MO 64098

PROJECT # X2117-01 SITE# 5118 ASSET # 7815118012

REVISION:	
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ISSUE DATE: 09/16/2022

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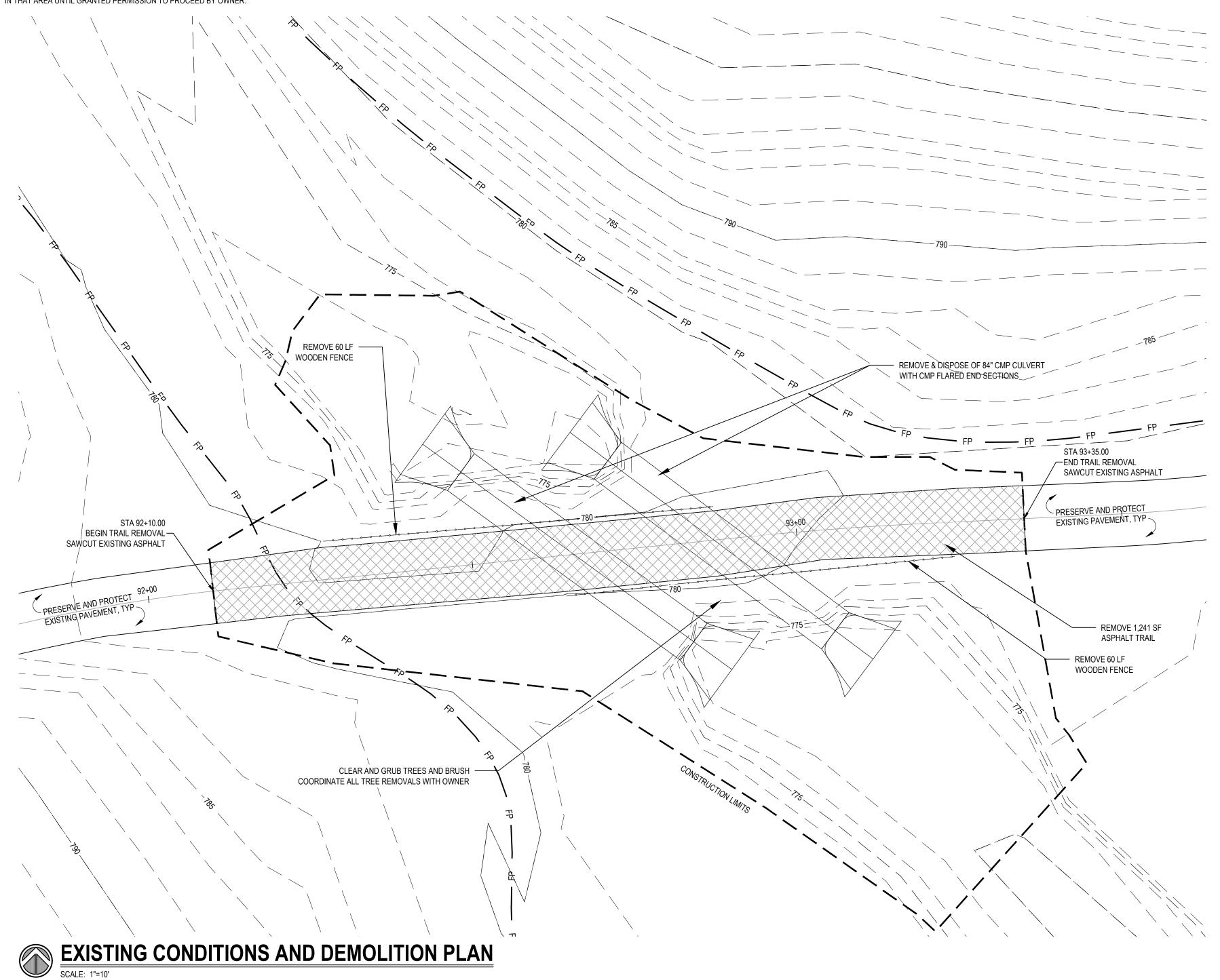
SHEET TITLE: Sheet Index and General Information

SHEET NUMBER:

CONSTRUCTION DOCUMENTS 09/16/2022 SHEET 2 OF 6

GENERAL NOTES:

- ALL SHOWN UTILITY INFORMATION IS APPROXIMATE, AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF WORK. CALL THE MISSOURI ONE CALL SYSTEM AT 811.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS SHOWN ON PLAN. THE ENGINEER AND OWNER SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.
- LOCATE CONSTRUCTION FENCE AS REQUIRED TO SECURE CONSTRUCTION SITE. FENCING MAY EXTEND BEYOND CONSTRUCTION LIMITS AS REQUIRED.
- 4. THE BEE CREEK SHELTER MAY HAVE EVENTS DURING THE CONSTRUCTION PERIOD FROM APRIL 15 TO NOVEMBER 1. CONTRACTOR SHALL COORDINATE EQUIPMENT AND MATERIAL DELIVERIES AND STORAGE AROUND SCHEDULED EVENTS AND SHALL NOT DAMAGE OR DISRUPT USE OF THE BUILDINGS, PAVEMENT, UTILITIES, AND TURF AREAS SURROUNDING AND/OR LEADING TO THE SHELTER.
- 5. CONTRACTOR WILL NOT PERFORM ANY WORK IN ENVIRONMENTALLY/CULTURALLY SENSITIVE AREAS NOTED ON THE LOCATION MAP WITHOUT PRIOR APPROVAL OF THE OWNER.
- 6. PROTECT ALL TREES NOT TO BE REMOVED. ALL TREE REMOVALS TO BE COORDINATED WITH OWNER. TREE REMOVALS SHALL BE COMPLETED PRIOR TO MARCH 31. CLEARING AND GRUBBING EXTENTS TO BE WITHIN CONSTRUCTION LIMITS AND MORE PRECISELY DETERMINED DURING FIELD VISIT TO COORDINATE WITH OWNER.
- 7. OWNER SHALL BE IMMEDIATELY NOTIFIED OF ANY ARCHEOLOGICAL DISCOVERIES MADE DURING CONSTRUCTION AND WORK MUST BE HALTED IN THAT AREA UNTIL GRANTED PERMISSION TO PROCEED BY OWNER.







STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



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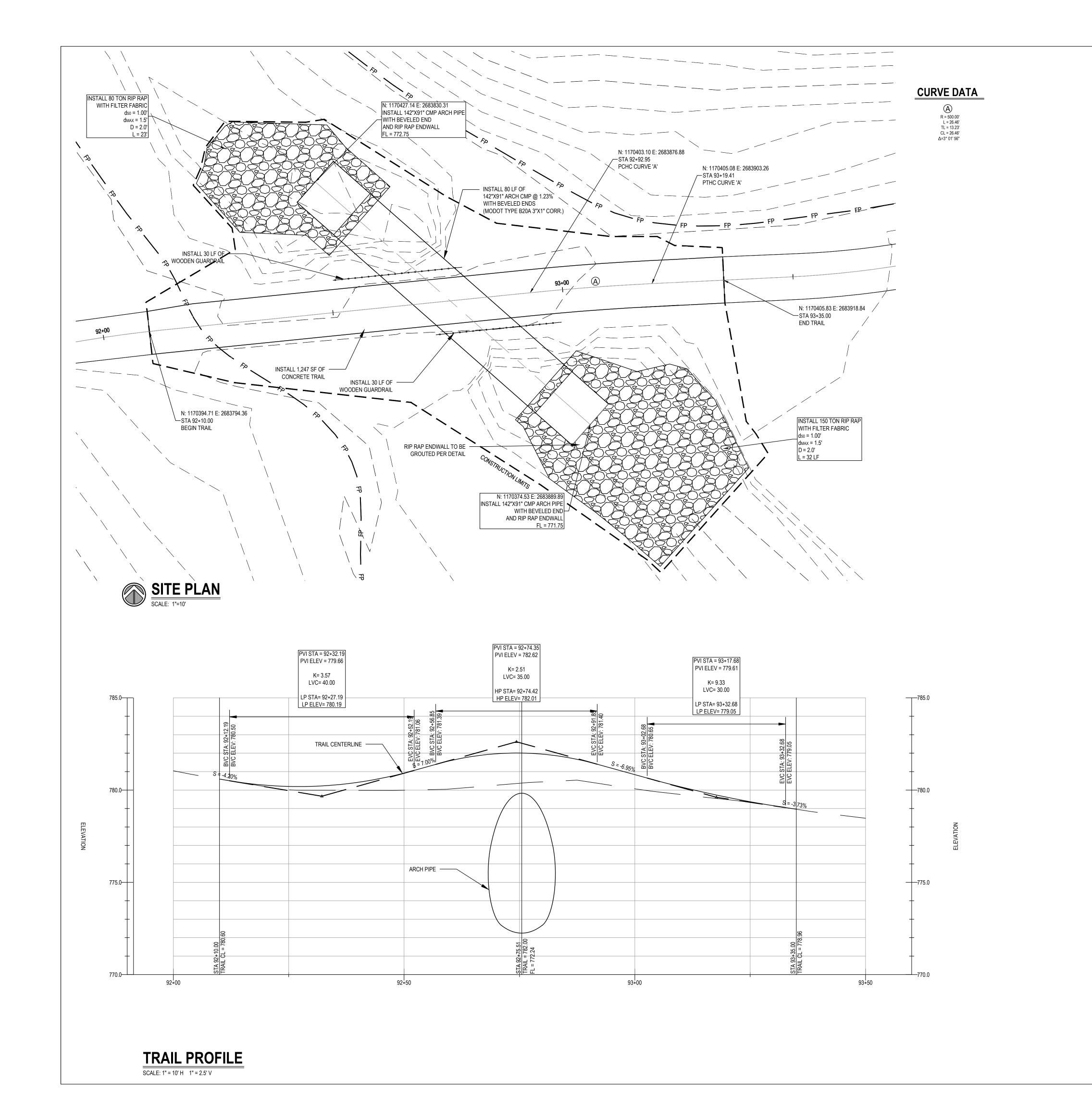
SHEET TITLE:
Existing Conditions and
Demolition Plan

SHEET NUMBER:

DRAWN BY: CHECKED BY:

C-101

CONSTRUCTION DOCUMENTS 09/16/2022 SHEET 3 OF 6



GENERAL NOTES:

1. ALL SHOWN UTILITY INFORMATION IS APPROXIMATE, AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF WORK. CALL THE MISSOURI ONE CALL SYSTEM AT 811.

2. THE CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS SHOWN ON PLAN. THE ENGINEER AND OWNER SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.

3. REFERENCE GRADING SHEETS FOR SITE PREPARATION AND SWPPP INFORMATION.

4. CULVERT PIPE TO HAVE BEVELED ENDS PER DETAIL. PIPE TO BE INSTALLED PER MODOT DETAIL 725.00C, INCLUDING BUT NOT LIMITED TO BEDDING AND BACKFILL REQUIREMENTS. MINIMUM COVER FOR CONSTRUCTION LOADS MAY ALSO BE REQUIRED AT CONTRACTOR'S EXPENSE IF NECESSARY PER CONTRACTOR'S MEANS AND METHODS.

5. RIP RAP SHALL CONSIST OF DURABLE STONE AND SHALL HAVE A GEOTEXTILE FILTER FABRIC SEPARATING THE RIP RAP FROM THE SOIL INCLUDED IN THE RIP RAP PRICE. THE FABRIC MUST MEET THE REQUIREMENTS OF MODOT SPECIFICATION SECTION 1011 FOR PERMANENT EROSION CONTROL GEOTEXTILE.

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PAVED TRAIL REPAIR DESIGN & PHASE 1 CONSTRUCTION

WESTON BEND STATE PARK 16600 HIGHWAY 45 NORTH WESTON, MO 64098

PROJECT # X2117-01 SITE # 5118 ASSET # 7815118012

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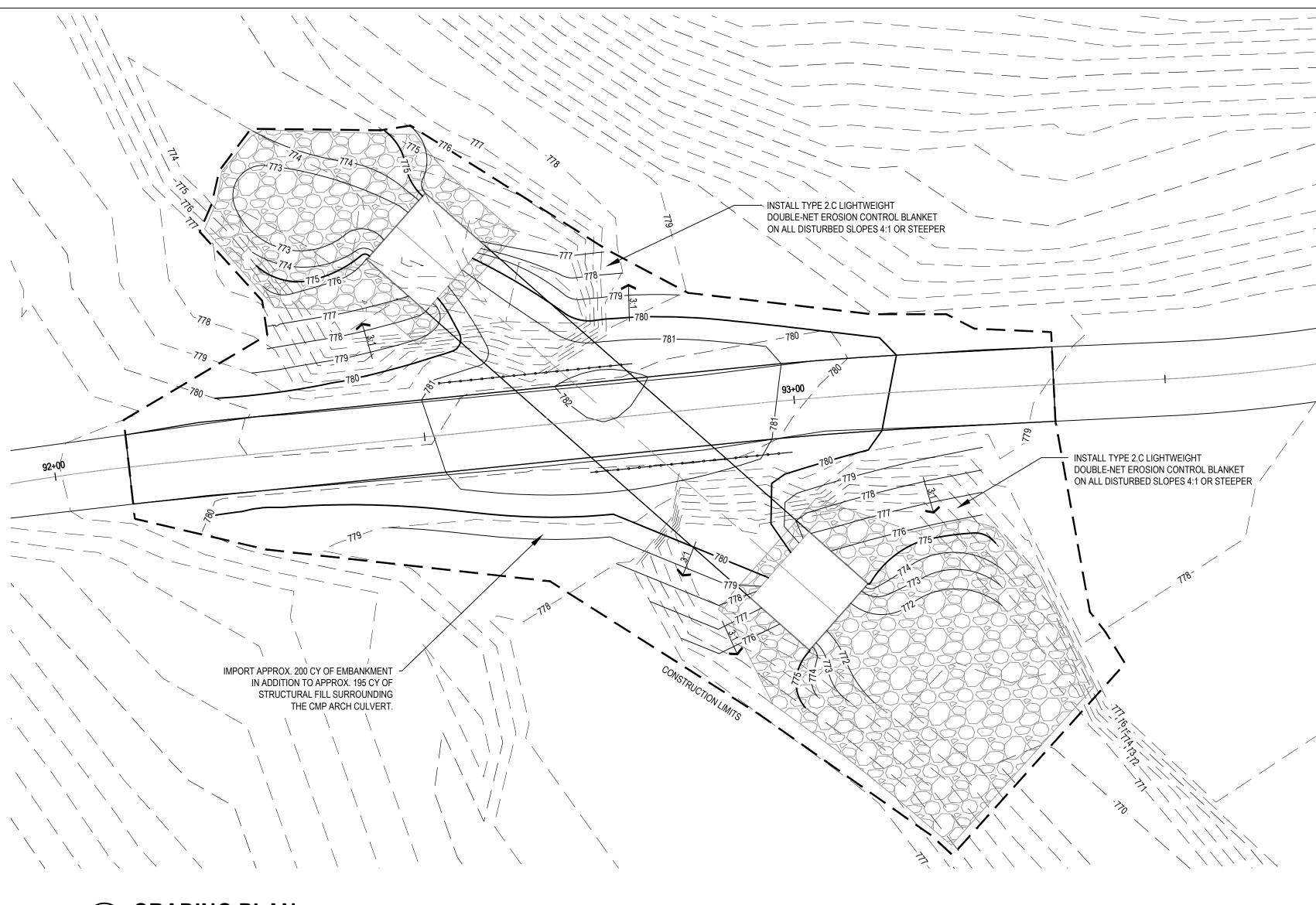
DRAWN BY:
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SHEET TITLE: Site Plan

SHEET NUMBER:

C-201

CONSTRUCTION DOCUMENTS 09/16/2022 SHEET 4 OF 6





GENERAL NOTES

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS SHOWN ON PLAN, ANY DISCREPANCIES NOTICED IN FIELD SHALL BE RELAYED TO ENGINEER/ OWNER PRIOR TO COMMENCEMENT OF WORK.

2. UNDERGROUND IMPROVEMENTS ARE UNKNOWN, UTILITY LOCATIONS ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES UNLESS OTHERWISE NOTED. CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED THROUTH THE STATE "ONE CALL" SYSTEM BEFORE DIGGING.

3. PROVIDE POSITIVE DRAINAGE AT ALL TIMES WITHIN THE CONSTRUCTION AREA. DO NOT ALLOW WATER TO FLOW TO OR POND IN EXCAVATION AREAS.

4. GRADING IS ASSUMED TO REQUIRE ALL FILL (INCLUDING STRUCTURAL FILL, TOPSOIL, AND OTHER FILL) TO BE IMPORTED AND WASTE SOILS TO BE REMOVED FROM THE SITE BY THE CONTRACTOR. TOPSOIL MAY BE STOCKPILED AND RESPREAD ON SITE. STOCKPILES MUST BE PROTECTED TO PREVENT EROSION.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING PAVEMENT AND UTILITIES AND SHALL REPAIR ANY SUCH DAMAGE AT THEIR OWN EXPENSE.

6. TURF RESTORATION SHALL BE PERFORMED AT THE DIRECTION OF PARKS STAFF FOR AREAS OUTSIDE OF RIP RAP.

7. CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL MEASURES INCLUDING BUT NOT LIMITED TO TEMPORARY STREAM DIVERSION, CHECK DAMS, AND/OR WATTLES, MULCH BERMS, OR OTHER MEANS AND METHODS.

EXISTING CONTOUR LINE — — — — 778 — — — — PROPOSED CONTOUR LINE

LEGEND

BOTTOM OF WALL

PROPOSED SPOT ELEVATION

PROPOSED SLOPE

MATCH EXISTING

ME

PAVEMENT

TOP OF CURB

BOTTOM OF CURB

LOW POINT

DRAIN INLET

BREAK POINT

TOP OF STAIRS

BOTTOM OF STAIRS

TOP OF WALL

SLOPE

1%

SLOPE

1%

SLOPE

1%

BE

10

BP

TC

BC

LP

DI

BREAK POINT

BP

TOP OF STAIRS

BS

TOP OF WALL

TW

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EROSION CONTROLS PROCEDURES

SEQUENCE OF EROSION CONTROL BMP'S (BEST MANAGEMENT PRACTICES)
 PRIOR TO GRADING OPERATION, INSTALL ALL STRAW SOCKS AND/OR OTHER APPROVED BMPS
 FOLLOWING SOIL DISTURBANCE, DISTURBED AREAS OF THE CONSTRUCTION SITE THAT WILL NOT BE REDISTURBED FOR 21 DAYS MUST BE STABILIZED BY THE 14TH DAY AFTER THE LAST DISTURBANCE, EXCEPT AS PRECLUDED BY SNOW COVER. IN THE EVENT OF SNOW COVER, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE THEREAFTER.
 MINIMIZE ANY TRACKING OF SOIL ONTO AREAS OF PAVEMENT OUTSIDE OF CONSTRUCTION LIMITS

2. THE CONTRACTOR SHALL HAVE A SPILL PREVENTION AND RESPONSE PLAN THAT ADDRESSES FUELING, MAINTENANCE AND STORAGE AREAS ON-SITE INCLUDING A DESCRIPTION OF SAID CONSTRUCTION MATERIALS (WITH UPDATES AS APPROPRIATE). THIS SPILL PREVENTION PLAN SHALL BE MAINTAINED ON THE PROJECT SITE.

3. ANY WASTES PRESENT OR GENERATED AT THE SITE SHALL BE TAKEN TO A PERMITTED SANITARY LANDFILL.

 TREAT OR DISPOSE OF SANITARY WATERS THAT ARE GENERATED ON-SITE IN ACCCORDANCE WITH STATE OF LOCAL REQUIREMENTS.

5. DUST BLOWING CONTROL. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO CONTROL DUST.

6. THE CONTRACTOR SHALL PERIODICALLY REMOVE ACCUMULATED SEDIMENT FROM BEHIND WATTLES AND/OR STRAW SOCKS DURING THE LIFE OF THIS CONTRACT. ACCUMULATION OF SEDIMENT MUST NOT BE ALLOWED TO REACH ABOVE HALF THE HEIGHT OF THE DEVICE. ALL EROSION CONTROL FEATURES SHALL BE KEPT IN WORKING ORDER DURING THE LIFE OF THIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER.

7. STABILIZATION OF DISTURBED AREAS WILL BE PERFORMED BY THE CONTRACTOR. DISTURBED AREAS AROUND THE BEE CREEK SHELTER AND PARKING AREA WILL BE STABILIZED USING A FESCUE BLEND PER THE SPECIFICATIONS. DISTURBED AREAS AROUND THE TRAIL AND CULVERT WILL BE STABILIZED USING ANNUAL RYE PER THE SPECIFICATIONS.

INSPECTIONS AND MODIFICATIONS TO THE PLAN

1. THE SITE SHALL BE INSPECTED TO IDENTIFY MAINTENANCE NEEDS AND/OR SWPPP DEFICIENCIES ONCE EVERY 7 CALENDAR DAYS, AND WITHIN 24 HOURS AFTER A PRECIPITATION EVENT OF 0.5 INCHES OR GREATER. CONTROLS MUST BE IN GOOD OPERATING CONDITION UNTIL THE CONSTRUCTION ACTIVITY IS COMPLETE AND FILNAL STABILIZATION HAS BEEN REACHED. ANY CHANGES THAT MAY BE REQUIRED TO CORRECT DEFICIENCIES IN THE SWPPP NOTED DURING AN INSPECTION SHOULD BE MADE AS SOON AS PRACTICAL AFTER AN INSPECTION BUT IN NO CASE LATER THAN 7 DAYS AFTER THE INSPECTION.

2. INSPECTIONS MUST BE CONDUCTED BY QUALIFIED PERSONNEL KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICE OF EROSION AND SEDIMENT CONTROLS WHO POSSESSES THE SKILLS TO ASSESS CONDITIONS AT THE CONSTRUCTION SITE THAT COULD IMPACT STORM WATER QUALITY AND TO ASSESS THE EFFECTIVENESS OF ANY EROSION AND SEDIMENT CONTROL MEASURES SELECTED TO CONTROL THE QUALITY OF STORM WATER DISCHARGE FROM THE CONSTRUCTION ACTIVITY.

3. THE EROSION CONTROL PLAN SHALL REMAIN DYNAMIC. IF DEFICIENCIES ARISE DURING THE COURSE OF THE PROJECT,

THE CONTRACTOR SHALL IMPLEMENT EFFECTIVE CORRECTIVE ACTIONS.

4. A COPY OF THE EROSION CONTROL PLAN MUST BE KEPT AT THE CONSTRUCTION SITE FROM THE TIME CONSTRUCTION BEGINS UNTIL THE SITE HAS REACHED FINAL STABILIZATION.

GENERAL NOTES

THE CONSTRUCTION MANAGER SHALL VERIFY ALL EXISTING SITE CONDITIONS SHOWN ON PLAN, ANY DISCREPANCIES NOTICED IN FIELD SHALL BE RELAYED TO THE ENGINEER / OWNER PRIOR TO COMMENCEMENT OF WORK.

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES, MANAGEMENT, DESIGN AND CONSTRUCTION

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PAVED TRAIL REPAIR DESIGN & PHASE 1 CONSTRUCTION

WESTON BEND STATE PARK 16600 HIGHWAY 45 NORTH WESTON, MO 64098

PROJECT # X2117-01 SITE # 5118 ASSET # 7815118012

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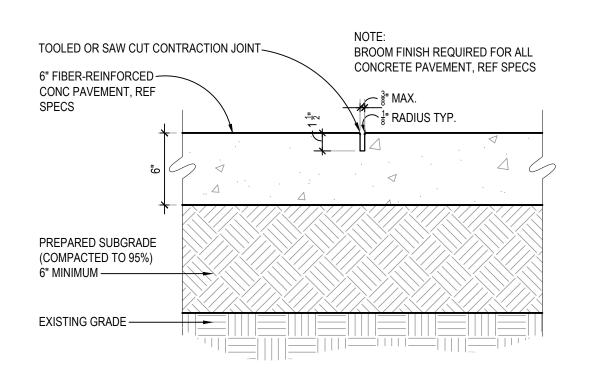
SHEET TITLE:
Grading Plan

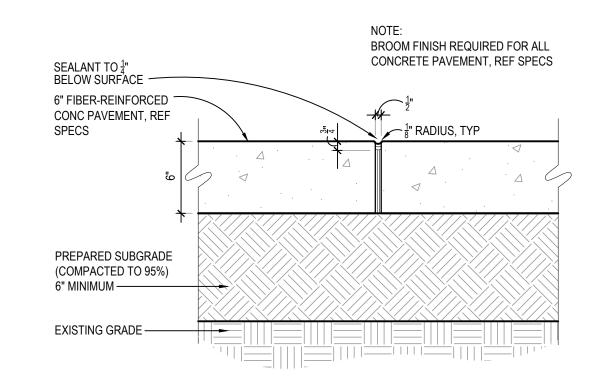
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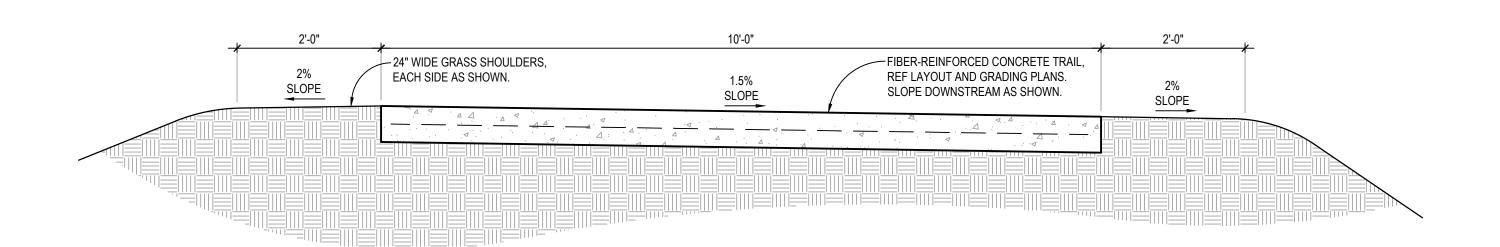
SHEET NUMBER:

C-301

CONSTRUCTION DOCUMENTS 09/16/2022 SHEET 5 OF 6







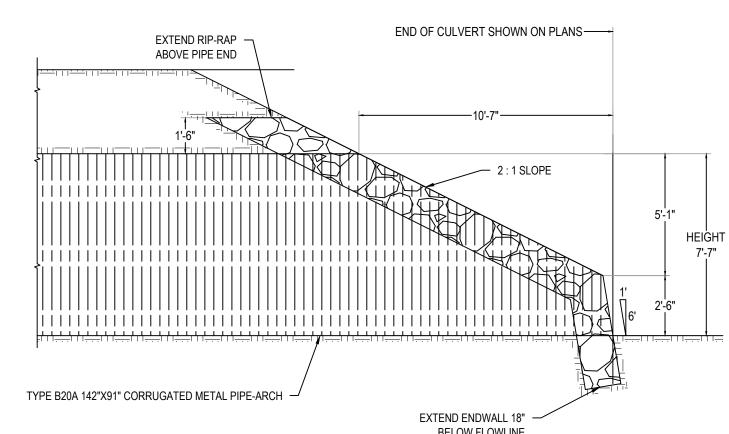
1 CONC. CONTRACTION JOINT

SCALE: 1 1/2"=1'-0"

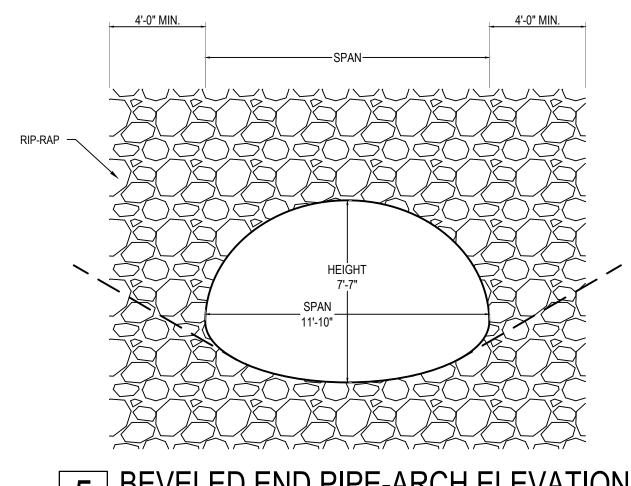
2 CONCRETE EXPANSION JOINT
SCALE: 1 1/2"=1'-0" (LOCATED AT 50' INTERVALS, TYP)

3 TYPICAL TRAIL CROSS-SECTION

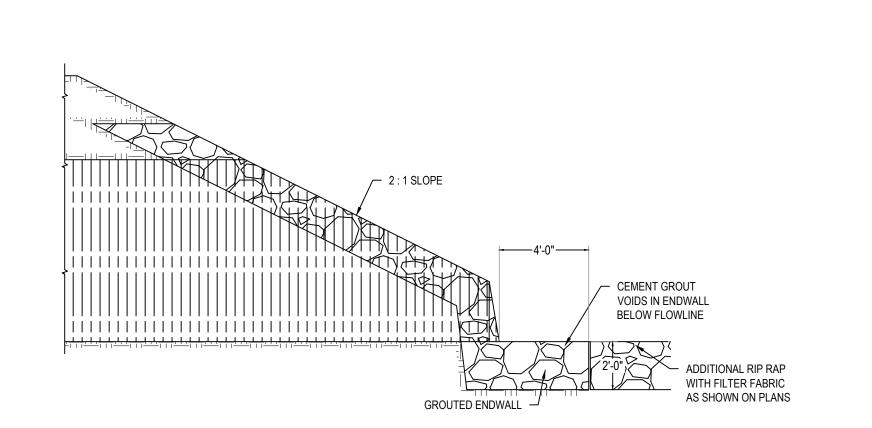
SCALE: 3/4" = 1'-0"



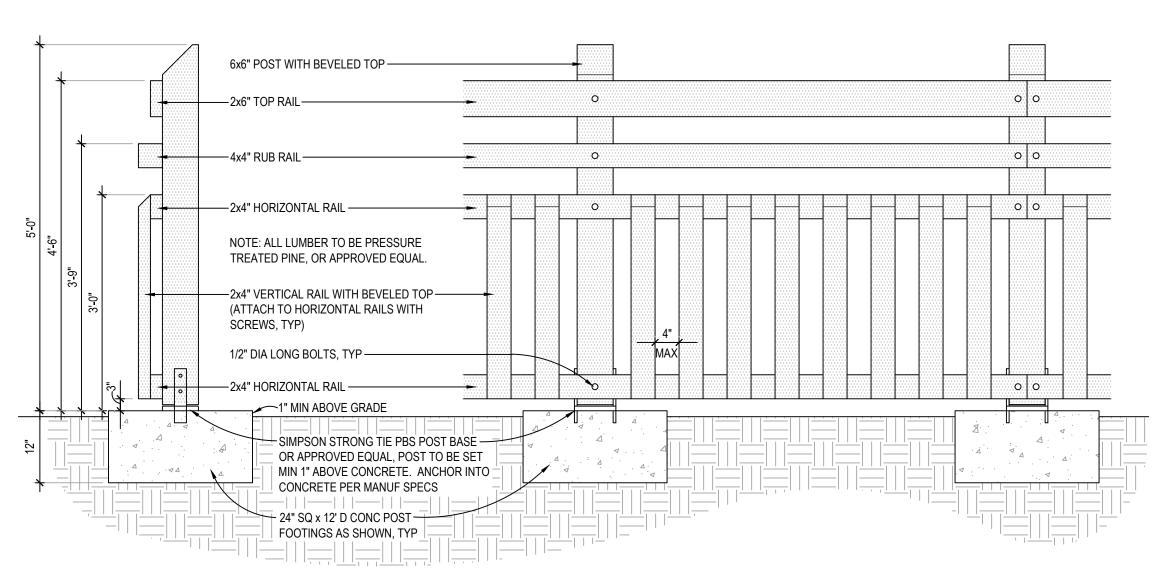




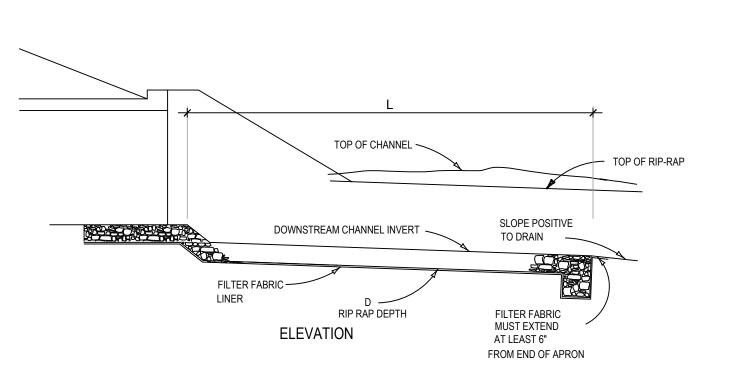




6 APRON FOR OUTLET END OF PIPE-ARCH SCALE: 3"=1'-0"



7 WOODEN GUARDRAIL



8 RIP-RAP PLACEMENT SCALE: NTS

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PROJECT # X2117-01 SITE # 5118 ASSET # 7815118012

DRAWN BY:
CHECKED BY:

DESIGNED BY:

SHEET TITLE: Site Details

SHEET NUMBER:

C-601

CONSTRUCTION DOCUMENTS 09/16/2022 SHEET 6 OF 6